DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Allied Building Products Corp. dba TRI-BUILT Materials Group
15 East Union Avenue
East Rutherford, NJ 07073

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: TRI-BUILT Self-Adhered Roof System over Wood Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 13.
The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY APPROVED

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP/TPO
Deck Type:	Wood
Maximum Design Pressure	-112.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
TRI-BUILT SA SBS Base	32' 6" x 3' 3-$^{3}/_{8}$"	ASTM D 6163, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
TRI-BUILT SA SBS Cap	32' 6" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
TRI-BUILT SA APP Cap	32' 6" x 3' 3-$^{3}/_{8}$"	ASTM D 6222, Type I	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Polytherm-H	Polyisocyanurate foam insulation	Polyglass USA, Inc.
Polytherm	Polyisocyanurate foam insulation	Polyglass USA, Inc.
Polytherm Composite	Polyisocyanurate/perlite composite insulation.	Polyglass USA, Inc.
ACFoam II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
Type X Gypsum	Fire resistant rated gypsum.	Generic
DensDeck, DensDeck Prime	Gypsum insulation board	Georgia-Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
H-Shield CG	Polyisocyanurate/perlite composite insulation	Hunter Panels, LLC
ENRGY-3, JM ISO 3	Polyisocyanurate foam insulation	Johns Manville Corporation
Fesco Board	Expanded mineral fiber	Johns Manville Corporation
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax, Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced coverboard	United States Gypsum Corporation

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast 12, 14 & 15	Insulation fastener for wood, steel and concrete decks		SFS Intec, Inc.
2.	Dekfast Galvalume Steel Hex	Galvalume hex stress plate.	2 7/8" x 3 ¼"	SFS Intec, Inc.
3.	Dekfast Dekflat Round Plastic Lock Plate	Polypropylene locking plate.	3" x 3 ¼"	SFS Intec, Inc.
4.	#12 & #14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
5.	Flat Bottom Metal Plate	A2-SS aluminized steel plate	3" square	OMG, Inc.
6.	OMG Plastic Plate	Polyethylene stress plate	3.2" round	OMG, Inc.
7.	Trufast #14 HD Fastener	Insulation fastener for steel and wood decks		Altenloh, Brinck & Co. U.S., Inc.
8.	Trufast 3" Metal Insulation Plate	Round Galvalume AZ50 steel plate	3.23 round 3" round	Altenloh, Brinck & Co. U.S., Inc.
9.	Trufast SIP TP Fastener	Carbon steel fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
10.	Polygrip Fasteners #12, #14 & #15	Insulation fastener for wood, steel and concrete decks	Various	Polyglass USA, Inc
11.	Polygrip Hex Plate	Galvalume hex stress plate.	2 7/8" x 3 ¼"	Polyglass USA, Inc
12.	Dekfast Galvalume Steel 3" Round	3" round galvalume AZ50 steel plate	3" round	SFS Intec, Inc.

APPROVED SURFACING:

TABLE 4

	Product Name	Product Description	Application Rate	Specification	Manufacturer
Gravel		To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
Slag		To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic

EVIDENCE SUBMITTED:

Test Agency	Test Name/Report	Report No.	Date
Factory Mutual Research Corporation	4470	J.I. 3001334	02.15.00
	4470	J.I. 3000857	01.12.00
	4470	J.I. 3004091	01.12.00
Underwriters Laboratory	TAS 114	00NK20869	06.08.00
Trinity | ERD	TAS 114	11751.05.03	05.30.03
	TAS 114	11758.08.03	08.11.03
	TAS 114	P1738.02.07	02.05.07
	TAS 117(B)-ASTM D903	020841.06.04	06.02.04
	TAS 114	11757.12.00-1	12.01.00
	TAS 114	11757.04.01-1	04.27.01
	TAS 114-J	P9260.03.08	03.21.08
	TAS 114-J	P7860SC.11.08	11.30.07
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11.30.07
	ASTM D6164 / ASTM D6222	P10490.08.08	08.13.08
	ASTM D6164 / ASTM D6222	P10490.10.08-R1	10.03.08
	ASTM D6222	P7400.03.08-R2	10/09/08
	TAS 114(D) – ASTM D1876	P10070.10.08	10/09/08
	ASTM D6222	P10490.10.08-2	10/30/08
	FM 4470 & TAS 114	P33970.03.11	03/15/11
	ASTM D6163 / ASTM D 4601	P33960.03.11	03/15/11
PRI Asphalt Technologies	ASTM D6222	PUSA-061-02-02	01.28.08
	ASTM D6222	PUSA-062-02-02	12.04.08
	ASTM D6163	PUSA-064-02-02	02.27.08

APPROVED ASSEMBLIES:

Membrane Type: SBS/APP

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank.

System Type A(1): All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

Anchor Sheet: One ply of an ASTM D4601, Type II approved base sheet fastened to the deck as described below:

Fastening #1: Attach base sheet using 11 ga. annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in three equally spaced staggered rows in the center of the sheet.

Fastening #2: Attach base sheet using OMG Roofgrip Fasteners and Flat Bottom Plates, Dekfast 14 with Galvalume Steel Hex plates or Polygrip Fasteners #14 with Polygrip Hex Plates or Trufast #14 HD Fasteners with 3" Metal Insulation Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

One or more of the following insulations:

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Any approved Polyisocyanurate listed in Table 2 Minimum 1" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One or more plies of TRI-BUILT SA SBS Base, self-adhered.

Membrane: One ply of TRI-BUILT SA SBS Cap, TRI-BUILT SA APP Cap, self-adhered.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -52.5 psf; (See general limitation #7.)

Membrane Type: SBS/APP

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank, fastened with 8d common nails at 4" o.c. or #8 wood screws at 6" o.c.

System Type A(2): All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

Anchor Sheet: One ply of an ASTM D4601, Type II approved base sheet fastened to the deck as described below:

Fastening: Attach base sheet using 11 ga. Annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in three equally spaced staggered rows in the center of the sheet.

One of more of the following insulations:

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Any approved Polyisocyanurate listed in Table 2 Minimum 1" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One or more plies of TRI-BUILT SA SBS Base, self-adhered.

Membrane: One ply of TRI-BUILT SA SBS Cap or TRI-BUILT SA APP Cap, self-adhered.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See general limitation #7.)

Membrane Type: SBS/APP

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank.

System Type A(3): All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

Anchor Sheet: One ply of Elastobase or Elastobase P fastened as below:

Fastening: 12 ga. Annular ring shank nails and 1-5/8" tin-caps attached 6" o.c. in 4" lap and 6" o.c. in four equally spaced staggered rows.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Polytherm, ACFoam II, ACFoam III, Polytherm-H, H-Shield, H-Shield CG, Multi-Max FA3, or ENRGY-3 Minimum 1" thick	**N/A**	**N/A**

Insulation: Adhered with Millenium One-Step Foamable Adhesive applied over rows of tin-caps in continuous rows 7" o.c.

Base Sheet: One or more plies of TRI-BUILT SA SBS Base, self-adhered.

Membrane: One ply of TRI-BUILT SA SBS Cap or TRI-BUILT SA APP Cap, self-adhered.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See general limitation #7.)

Membrane Type: SBS/APP

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank.

System Type C(1): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Any approved Polyisocyanurate listed in Table 2 Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Any approved High Density Wood Fiberboard Minimum ½" thick	**1**	**1:1.33 ft²**
DensDeck Minimum ¼" thick	**1**	**1:1.33 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of TRI-BUILT SA SBS Base, self-adhered.

Membrane: One ply of TRI-BUILT SA SBS Cap or TRI-BUILT SA APP Cap, self-adhered.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -52.5 psf; (See General limitation #7.)

Membrane Type: SBS/APP

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank, fastened with 8d common nails at 4" o.c.

System Type C(2): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved Polyisocyanurate listed in Table 2 Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved High Density Wood Fiberboard Minimum ½" thick	**1**	**1:1.33 ft²**
DensDeck Minimum ¼" thick	**1**	**1:1.33 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of TRI-BUILT SA SBS Base, self-adhered.

Membrane: One ply of TRI-BUILT SA SBS Cap or TRI-BUILT SA APP Cap, self-adhered.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -67.5 psf; (See General limitation #7.)

Membrane Type: SBS/APP

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank, fastened with wood screws at 6" o.c.

System Type C(3): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more of the following insulations:

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ENRGY-3, Polytherm-H, H-Shield or Polytherm Minimum 1.5" thick	**1, 7 or 10**	**1:1.33 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of TRI-BUILT SA SBS Base, self-adhered.

Membrane: One ply of TRI-BUILT SA SBS Cap or TRI-BUILT SA APP Cap, self-adhered.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -82.5 psf; (See General limitation #7.)

WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
   Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

END OF THIS ACCEPTANCE